0 8

2 bytes the total number of dir_slot	2 bytes the index of heap_top	2 bytes the number of record in heap	2 bytes the head address of idle record chain
2 bytes the number of bytes for record deleted	2 bytes the slot of record inserted lastly	2 bytes the slot of record inserted lastly	2 bytes the number of record inserted continuously
2 bytes the total number of records on this page	8 bytes the biggest id value of affair		
the biggest id value of affair	2 bytes the height of index tree	8 bytes the id value of the index tree which this page belongs to	
the id value of the index tree which this page belongs to		10 bytes the index of segment which the leaf node belongs to	
the index of segment which the leaf node belongs to			
10 bytes the index of segment which the non -leaf node belongs to			
data on the page			
directory field of dir_slot			
the checkout data of page with 8 bytes			

Fig 1

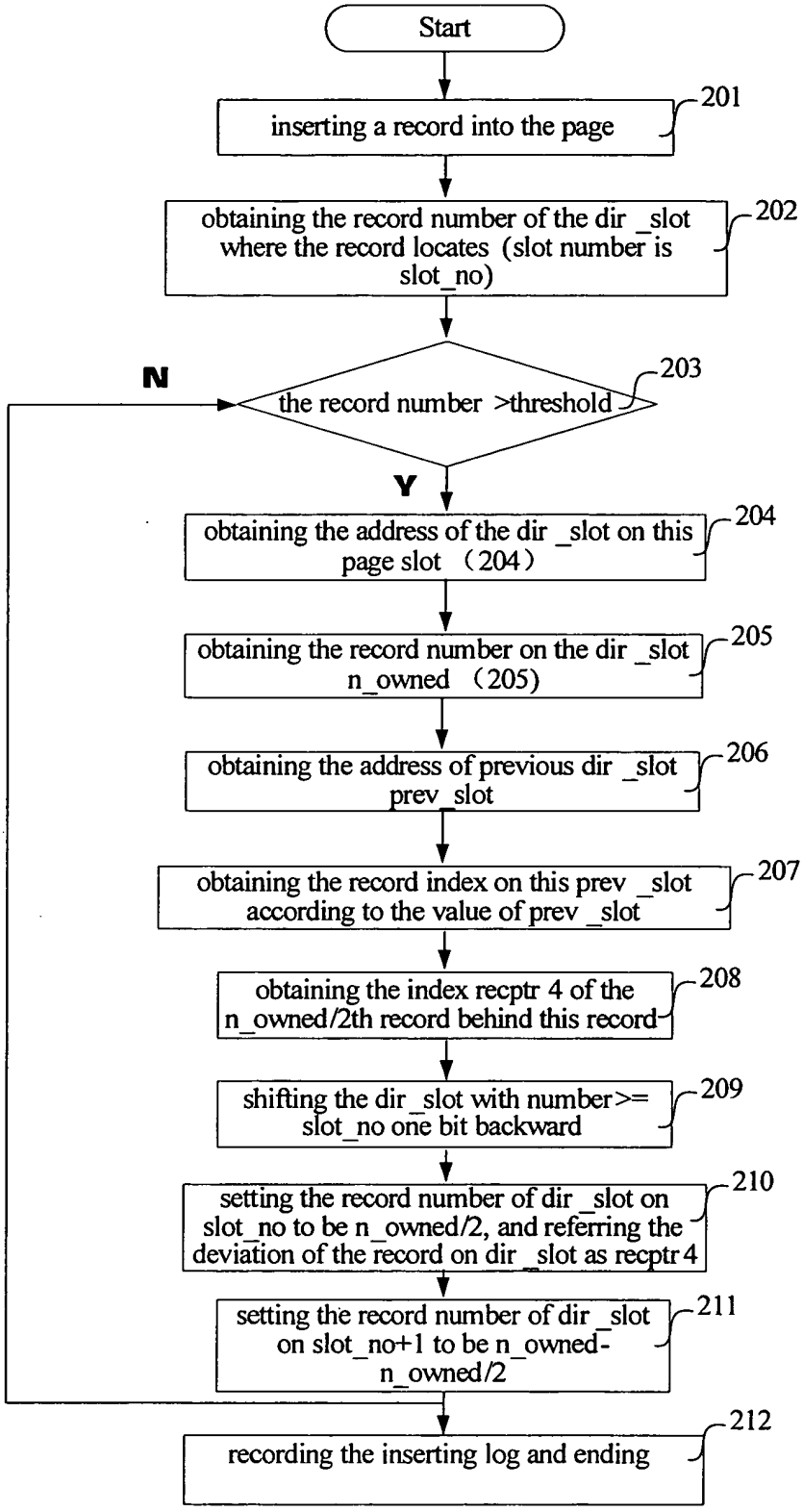
Start
inserting a record into the page
201
obtaining the record number of the dir _slot where the record locates (slot number is slot_no)
202
the record number >threshold
203
N
Y
obtaining the address of the dir _slot on this page slot (204)
204
obtaining the record number on the dir _slot n_owned (205)
205
obtaining the address of previous dir _slot prev_slot
206
obtaining the record index on this prev _slot according to the value of prev _slot
207
obtaining the index recptr 4 of the n_owned/2th record behind this record
208
shifting the dir _slot with number>= slot_no one bit backward
209
setting the record number of dir _slot on slot_no to be n_owned/2, and referring the deviation of the record on dir _slot as recptr 4
210
setting the record number of dir _slot on slot_no+1 to be n_owned-n_owned/2
211
recording the inserting log and ending
212

Fig 2

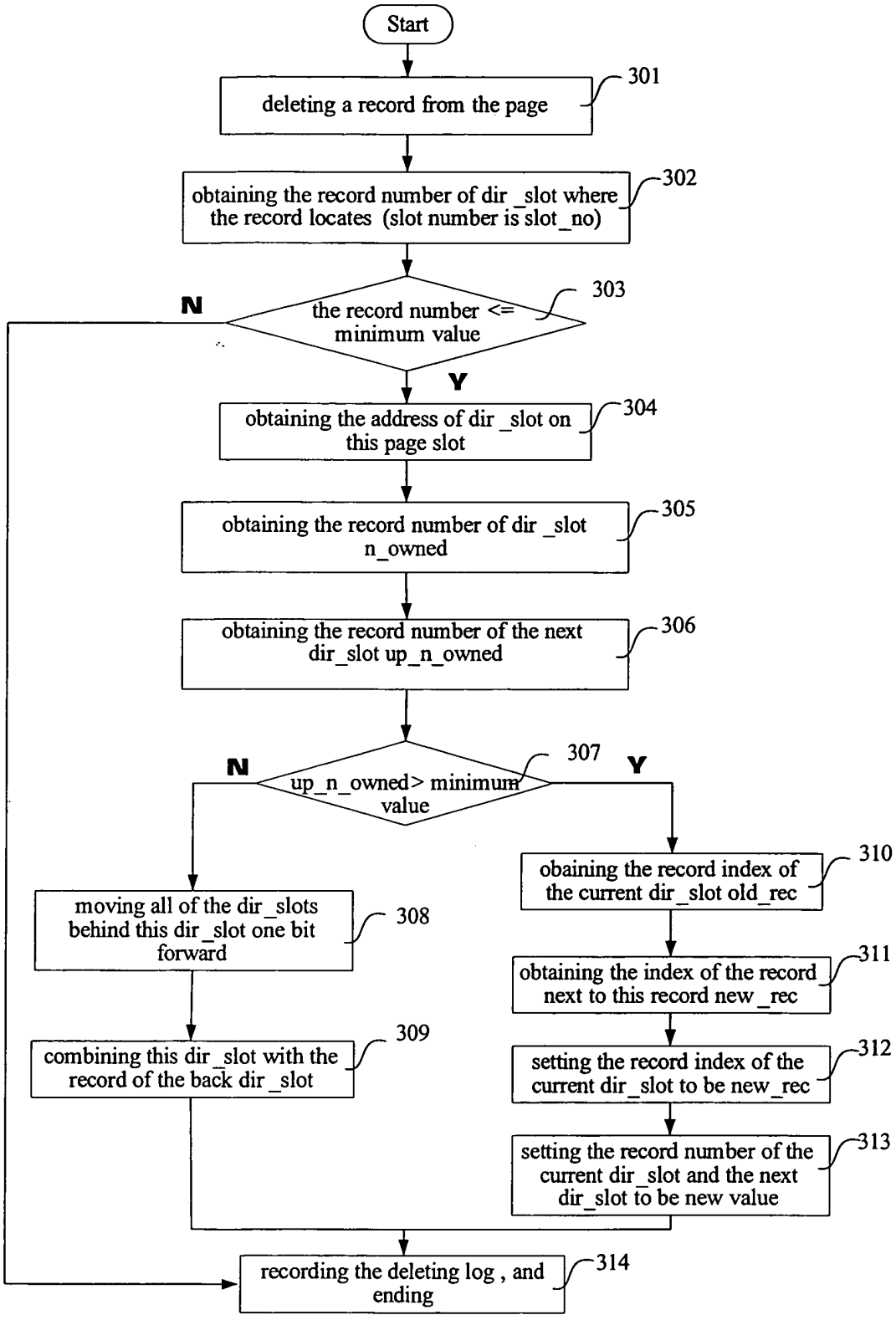
Start
deleting a record from the page
301
obtaining the record number of dir _slot where the record locates (slot number is slot_no)
302
the record number <= minimum value
303
N
Y
obtaining the address of dir _slot on this page slot
304
obtaining the record number of dir _slot n_owned
305
obtaining the record number of the next dir_slot up_n_owned
306
up_n_owned> minimum value
307
N
Y
moving all of the dir_slots behind this dir_slot one bit forward
308
combining this dir_slot with the record of the back dir _slot
309
obaining the record index of the current dir_slot old_rec
310
obtaining the index of the record next to this record new _rec
311
setting the record index of the current dir_slot to be new_rec
312
setting the record number of the current dir_slot and the next dir_slot to be new value
313
recording the deleting log , and ending
314

Fig 3

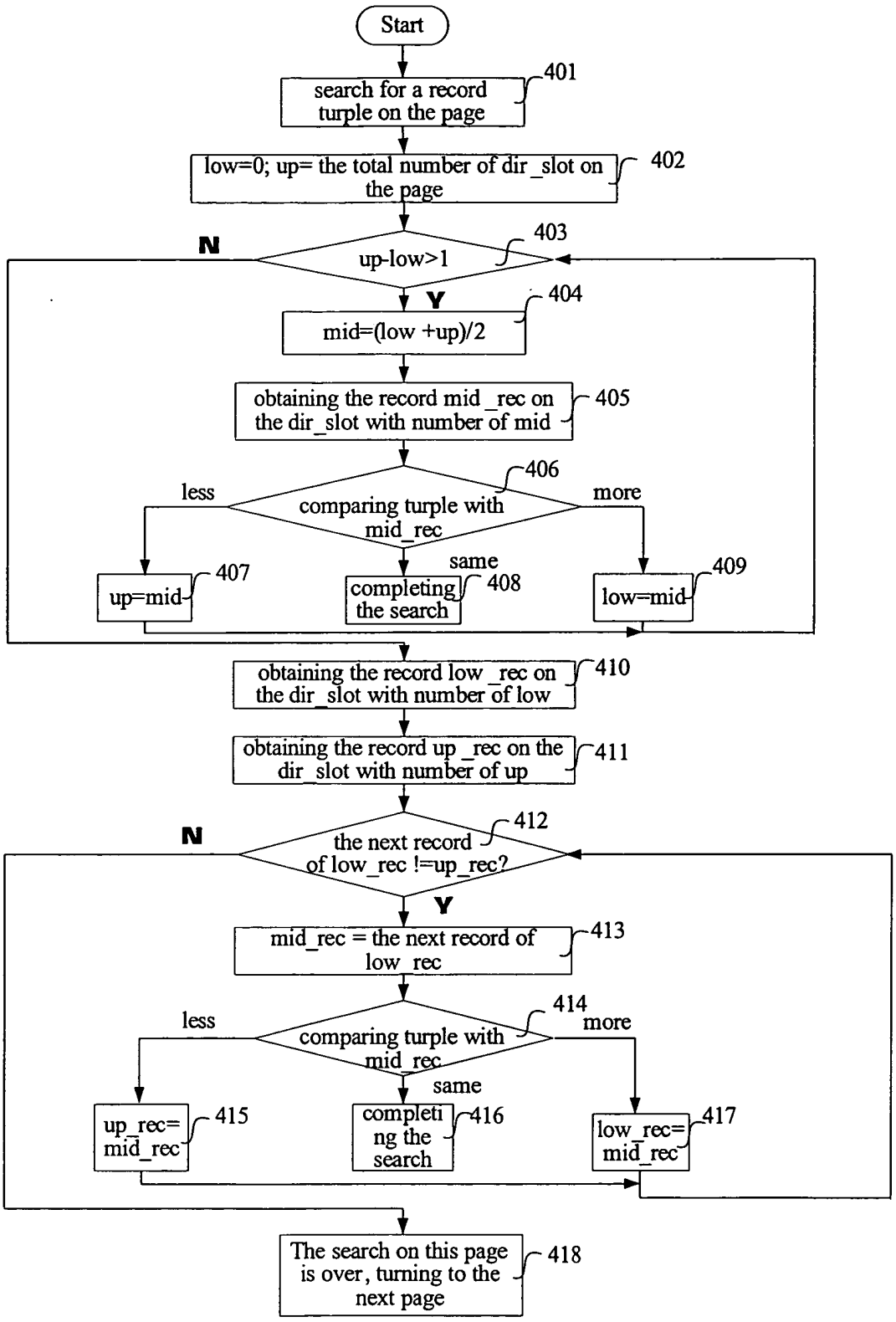
Start
search for a record turple on the page
401
low=0; up= the total number of dir_slot on the page
402
N
up-low>1
403
Y
mid=(low +up)/2
404
obtaining the record mid_rec on the dir_slot with number of mid
405
less
comparing turple with mid_rec
406
more
same
up=mid
407
completing the search
408
low=mid
409
obtaining the record low_rec on the dir_slot with number of low
410
obtaining the record up_rec on the dir_slot with number of up
411
N
the next record of low_rec !=up_rec?
412
Y
mid_rec = the next record of low_rec
413
less
comparing turple with mid_rec
414
more
same
up_rec= mid_rec
415
completi ng the search
416
low_rec= mid_rec
417
The search on this page is over, turning to the next page
418

Fig 4